

# Dr. Hans A. Krimm

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## Current Position:

Senior Scientist, Universities Space Research Association (USRA) and CRESST in the Astroparticle Physics Laboratory of the Astrophysics Science Division, NASA Goddard Space Flight Center.

## Research Areas:

Gamma-ray Bursts and Counterparts, Galactic X-ray Binaries, X-Ray Astronomy.

## Education:

Dec. 1991 Ph.D., Physics, The University of Chicago.  
Thesis advisor: Professor James W. Cronin.  
June 1983 B.A., *Magna cum laude*, Physics, The Colorado College.

## Previous Positions:

7/94 -- 7/99 Assistant Professor of Physics and Astronomy, Hampden-Sydney College.  
9/91 -- 7/94 Postdoctoral Associate, Massachusetts Institute of Technology.

## Scientific Investigations:

Current: Development of scientific software and calibration products for the ASTRO-H mission.  
Analysis of data from and operations of the Swift MIDEX mission.  
Previous: Development of InFOCUS balloon instrument.  
Development of the Swift MIDEX mission.

## Recent Guest Investigations:

12/13 -- 12/15 BAT Triggered Target of Opportunity Observations with Swift (H. Krimm, PI, Swift Cycle 9)  
11/12 -- 11/14 BAT Triggered Target of Opportunity Observations with Swift (H. Krimm, PI, Swift Cycle 8)  
01/12 -- 01/14 BAT Triggered Target of Opportunity Observations with Swift (H. Krimm, PI, Swift Cycle 7)

## Selected Recent Professional Activities:

02/16 -- LIGO Virgo Electromagnetic Follow-up Team Member  
06/09 -- Jet Acceleration and Collimation Probe Of Transient X-Ray Binaries (JACPOT XRB) Team  
06/06 -- Very Energetic Radiation Imaging Telescope Array System (VERITAS) Associate Member  
10/10 -- Goddard Scientific Colloquium Committee member; CRESST representative on committee, charged with sending all official invitations.  
10/15 -- 01/16 Swift Senior Review Proposal; editor of Transient Monitoring section  
03/14 -- 03/14 Fermi Cycle 7 Panel Reviewer

## Selected Recent Publications:

Sakamoto, T. *et al.*, (2016), "Swift/BAT and MAXI/GSC broadband transient monitor," P.A.S.J., adv acc, 2.

Coley, J. B., Corbet, R. H. D. and Krimm, H. A., (2015), "Probing the Masses and Radii of Donor Stars in Eclipsing X-Ray Binaries with the Swift Burst Alert Telescope," Ap. J., **808**, 140.

Romano, P. *et al.*, (2014), "The 100-month Swift catalogue of supergiant fast X-ray transients. I. BAT on-board and transient monitor flares." A. & A., **562**, 2.

Krimm, H. A. *et al.*, (2013), "The Swift/BAT Hard X-Ray Transient Monitor," Ap. J. Suppl, **209**, 14.

Corbet, R. H. D. and Krimm, H. A., (2013), "Superorbital Periodic Modulation in Wind-accretion High-mass X-Ray Binaries from Swift Burst Alert Telescope Observations," Ap. J., **778**, 45.

Cenko, S. B. *et al.*, (2012), "Swift J2058.4+0516: Discovery of a Possible Second Relativistic Tidal Disruption Flare?" Ap. J., **753**, 77.

Burrows, D. N. *et al.*, (2011), "Relativistic jet activity from the tidal disruption of a star by a massive black hole," Nature, **476**, 421.

Sakamoto, T. *et al.*, (2011), "The Second Swift Burst Alert Telescope Gamma-Ray Burst Catalog," Ap. J. Suppl, **195**, 2.

Krimm, H. A. *et al.*, (2011), "Discovery and Evolution of the New Black Hole Candidate Swift J1539.2-6227 during its 2008 Outburst," Ap. J., **735**, 104.

Wilson-Hodge, C. A. *et al.*, (2011), "When a Standard Candle Flickers," Ap. J., **727**, L40.

Shaposhnikov, N., Markwardt, C., Swank, J. and Krimm, H., (2010), "Discovery and Monitoring of a New Black Hole Candidate XTE J1752-223 with RXTE: Rms Spectrum Evolution, Black Hole Mass, and the Source Distance," Ap. J., **723**, 1817.

Osten, R. A. *et al.*, (2010), "The Mouse That Roared: A Superflare from the dMe Flare Star EV Lac Detected by Swift and Konus-Wind," Ap. J., **721**, 785.

Brocksopp, C. *et al.*, (2010), "Disentangling jet and disc emission from the 2005 outburst of XTE J1118+480," M.N.R.A.S., **404**, 908.

Tueller, J. *et al.*, (2010), "The 22 Month Swift-BAT All-Sky Hard X-ray Survey," Ap. J. Suppl, **186**, 378.

Krimm, H. A. *et al.*, (2009), "Testing the Epeak-Eiso Relation for GRBs Detected by Swift and Suzaku-WAM," Ap. J., **704**, 1405.

Soderberg, A. M. *et al.*, (2008), "An extremely luminous X-ray outburst at the birth of a supernova," Nature, **453**, 469.

Krimm, H. A. *et al.*, (2007), "Discovery of the Accretion-powered Millisecond Pulsar SWIFT J1756.9-2508 with a Low-Mass Companion," Ap. J., **668**, L147.

Plus 112 additional refereed papers since 2004.